RECEIVED



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/872,832A

DATE: 05/06/2003 TIME: 14:44:03

ENTERED

Input Set : A:\83020031.app

Output Set: N:\CRF4\05062003\1872832A.raw

×. :: †**

```
3 <110> APPLICANT: SADELAIN, MICHEL
          LATOUCHE, JEAN BAPTISTE
  6 <120> TITLE OF INVENTION: ARTIFICIAL ANTIGEN PRESENTING CELLS AND METHODS OF USE
          THEREOF
  9 <130> FILE REFERENCE: 830002-2003.1
 11 <140> CURRENT APPLICATION NUMBER: 09/872,832A
 12 <141> CURRENT FILING DATE: 2001-06-01
 14 <150> PRIOR APPLICATION NUMBER: 60/209,157
'15 <151> PRIOR FILING DATE: 2000-06-02
 17 <160> NUMBER OF SEQ ID NOS: 48
 19 <170> SOFTWARE: PatentIn Ver. 2.1
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 9
 23 <212> TYPE: PRT
24 <213> ORGANISM: Homo sapiens
26 <400> SEQUENCE: 1
27 Tyr Thr Ser Asp Tyr Phe Ile Ser Tyr
                      5
31 <210> SEQ ID NO: 2
32 <211> LENGTH: 9
33 <212> TYPE: PRT
34 <213> ORGANISM: Homo sapiens
36 <400> SEQUENCE: 2
37 Tyr Leu Asp Asp Pro Asp Leu Lys Tyr
38 1
41 <210> SEQ ID NO: 3
42 <211> LENGTH: 9
43 <212> TYPE: PRT
44 <213> ORGANISM: Homo sapiens
46 <400> SEQUENCE: 3
47 Ile Ala Asp Met Gly His Leu Lys Tyr
48 1
51 <210> SEQ ID NO: 4
52 <211> LENGTH: 9
53 <212> TYPE: PRT
54 <213> ORGANISM: Homo sapiens
56 <400> SEQUENCE: 4
57 Ser Thr Asp His Ile Pro Ile Leu Tyr
58
   1
61 <210> SEQ ID NO: 5
62 <211> LENGTH: 9
63 <212> TYPE: PRT
```



RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/872,832A

DATE: 05/06/2003 TIME: 14:44:03

Input Set : A:\83020031.app

```
66 <400> SEQUENCE: 5
 67 Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 68 1
71 <210> SEQ ID NO: 6
72 <211> LENGTH: 9
73 <212> TYPE: PRT
74 <213> ORGANISM: Homo sapiens
76 <400> SEQUENCE: 6
77 Ala Thr Asp Phe Lys Phe Ala Met Tyr
78 1
81 <210> SEQ ID NO: 7
82 <211> LENGTH: 9
83 <212> TYPE: PRT
84 <213> ORGANISM: Homo sapiens
86 <400> SEQUENCE: 7
87 Tyr Thr Ala Val Val Pro Leu Val Tyr
88 1
                     5
91 <210> SEQ ID NO: 8
92 <211> LENGTH: 12
93 <212> TYPE: PRT
94 <213> ORGANISM: Homo sapiens
96 <400> SEQUENCE: 8
97 Tyr Thr Asp Tyr Gly Gly Leu Ile Phe Asn Ser Tyr
101 <210> SEQ ID NO: 9
102 <211> LENGTH: 9
103 <212> TYPE: PRT
104 <213> ORGANISM: Homo sapiens
106 <400> SEQUENCE: 9
107 Leu Leu Asp Val Pro Thr Ala Ala Val
108
      1
111 <210> SEQ ID NO: 10
112 <211> LENGTH: 9
113 <212> TYPE: PRT
114 <213> ORGANISM: Homo sapiens
116 <400> SEQUENCE: 10
117 Ser Leu Leu Pro Ala Ile Val Glu Leu
    1
121 <210> SEQ ID NO: 11
122 <211> LENGTH: 9
123 <212> TYPE: PRT
124 <213> ORGANISM: Homo sapiens
126 <400> SEQUENCE: 11
127 Tyr Leu Leu Pro Ala Ile Val Glu Ile
    1
                     -5
131 <210> SEQ ID NO: 12
132 <211> LENGTH: 9
133 <212> TYPE: PRT
134 <213> ORGANISM: Homo sapiens
```



DATE: 05/06/2003

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/872,832A TIME: 14:44:03

Input Set : A:\83020031.app

```
136 <400> SEQUENCE: 12
137 Met Val Asp Gly Thr Leu Leu Leu
138
     1
                      5
141 <210> SEQ ID NO: 13
142 <211> LENGTH: 9
143 <212> TYPE: PRT
144 <213> ORGANISM: Homo sapiens
146 <400> SEQUENCE: 13
147 Tyr Met Asn Gly Thr Met Ser Gln Val
151 <210> SEQ ID NO: 14
152 <211> LENGTH: 10
153 <212> TYPE: PRT
154 <213> ORGANISM: Homo sapiens
156 <400> SEQUENCE: 14
157 Met Leu Leu Ser Val Pro Leu Leu Gly
158
     1
                      5
161 <210> SEQ ID NO: 15
162 <211> LENGTH: 10
163 <212> TYPE: PRT
164 <213> ORGANISM: Homo sapiens
166 <400> SEQUENCE: 15
167 Leu Leu Leu Asp Val Pro Thr Ala Ala Val
      1
171 <210> SEQ ID NO: 16
172 <211> LENGTH: 12
173 <212> TYPE: PRT
174 <213> ORGANISM: Homo sapiens
176 <400> SEQUENCE: 16
177 Leu Leu Leu Asp Val Pro Thr Ala Ala Val Gln Ala
181 <210> SEQ ID NO: 17
182 <211> LENGTH: 14
183 <212> TYPE: PRT
184 <213> ORGANISM: Homo sapiens
186 <400> SEQUENCE: 17
187 Val Leu Phe Arg Gly Gly Pro Arg Gly Leu Leu Ala Val Ala
     1
191 <210> SEQ ID NO: 18
192 <211> LENGTH: 9
193 <212> TYPE: PRT
194 <213> ORGANISM: Homo sapiens
196 <400> SEQUENCE: 18
197 Ser Val Leu Asn Leu Val Ile Val Lys
     1
201 <210> SEQ ID NO: 19
202 <211> LENGTH: 9
203 <212> TYPE: PRT
204 <213> ORGANISM: Homo sapiens
```



RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/872,832A

DATE: 05/06/2003 TIME: 14:44:03

Input Set : A:\83020031.app

```
206 <400> SEQUENCE: 19
   207 Lys Val Val Asn Pro Leu Phe Glu Lys
   208 1
                        5
   211 <210> SEQ ID NO: 20
   212 <211> LENGTH: 9
   213 <212> TYPE: PRT
   214 <213> ORGANISM: Homo sapiens
   216 <400> SEQUENCE: 20
   217 Arg Thr Gln Asn Val Leu Gly Glu Lys
         1
   221 <210> SEQ ID NO: 21
   222 <211> LENGTH: 9
   223 <212> TYPE: PRT
   224 <213> ORGANISM: Homo sapiens
   226 <400> SEQUENCE: 21
   227 Ala Ser Phe Asp Lys Ala Lys Leu Lys
   228 1
   231 <210> SEQ ID NO: 22
   232 <211> LENGTH: 12
   233 <212> TYPE: PRT
   234 <213> ORGANISM: Homo sapiens
   236 <220> FEATURE:
   237 <221> NAME/KEY: MOD_RES
   238 <222> LOCATION: (7)..(8)
  239 <223> OTHER INFORMATION: Any amino acid
   241 <400> SEQUENCE: 22
-> 242 Ala Thr Ala Gly Asp Gly Xaa Xaa Glu Leu Arg Lys
   243 1
  246 <210> SEQ ID NO: 23
  247 <211> LENGTH: 9
  248 <212> TYPE: PRT
  249 <213> ORGANISM: Homo sapiens
  251 <400> SEQUENCE: 23
  252 Lys Tyr Pro Asn Glu Phe Phe Leu Leu
  253
        1
                        5
  256 <210> SEQ ID NO: 24
  257 <211> LENGTH: 9
  258 <212> TYPE: PRT
  259 <213> ORGANISM: Homo sapiens
  261 <400> SEQUENCE: 24
  262 Tyr Tyr Glu Glu Gln His Pro Glu Leu
       1
  266 <210> SEQ ID NO: 25
  267 <211> LENGTH: 9
  268 <212> TYPE: PRT
  269 <213> ORGANISM: Homo sapiens
  271 <400> SEQUENCE: 25
 272 Ala Tyr Val His Met Val Thr His Phe
  273
```



DATE: 05/06/2003

TIME: 14:44:03

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/872,832A

Input Set : A:\83020031.app

```
276 <210> SEQ ID NO: 26
     277 <211> LENGTH: 9
     278 <212> TYPE: PRT
     279 <213> ORGANISM: Homo sapiens
     281 <220> FEATURE:
     282 <221> NAME/KEY: MOD RES
     283 <222> LOCATION: (3)
     284 <223> OTHER INFORMATION: Any amino acid
     286 <220> FEATURE:
     287 <221> NAME/KEY: MOD RES
     288 <222> LOCATION: (9)
     289 <223> OTHER INFORMATION: Any amino acid
     291 <400> SEQUENCE: 26
W--> 292 Val Tyr Xaa Lys His Pro Val Ser Xaa
     293
     296 <210> SEQ ID NO: 27
     297 <211> LENGTH: 9
    298 <212> TYPE: PRT
    299 <213> ORGANISM: Homo sapiens
     301 <400> SEQUENCE: 27
    302 Asp Val Phe Arg Asp Pro Ala Leu Lys
    303
         1
    306 <210> SEQ ID NO: 28
    307 <211> LENGTH: 9
    308 <212> TYPE: PRT
    309 <213> ORGANISM: Homo sapiens
    311 <400> SEQUENCE: 28
    312 Lys Thr Gly Gly Pro Ile Tyr Lys Arg
    313
                           5
    316 <210> SEQ ID NO: 29
    317 <211> LENGTH: 11
    318 <212> TYPE: PRT
    319 <213> ORGANISM: Homo sapiens
    321 <400> SEQUENCE: 29
    322 Thr Val Phe Asp Ala Lys Arg Leu Ile Gly Arg
          1
                           5
    326 <210> SEQ ID NO: 30
    327 <211> LENGTH: 9
    328 <212> TYPE: PRT
    329 <213> ORGANISM: Homo sapiens
    331 <400> SEQUENCE: 30
    332 Ala Pro Arg Thr Val Ala Leu Thr Ala
    333
    336 <210> SEQ ID NO: 31
    337 <211> LENGTH: 9
    338 <212> TYPE: PRT
    339 <213> ORGANISM: Homo sapiens
    341 <400> SEQUENCE: 31
    342 Ala Pro Arg Thr Leu Val Leu Leu Leu
```



RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/872,832A

DATE: 05/06/2003 TIME: 14:44:04

Input Set : A:\83020031.app

Output Set: N:\CRF4\05062003\1872832A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:22; Xaa Pos. 7,8
Seq#:26; Xaa Pos. 3,9